

1/16

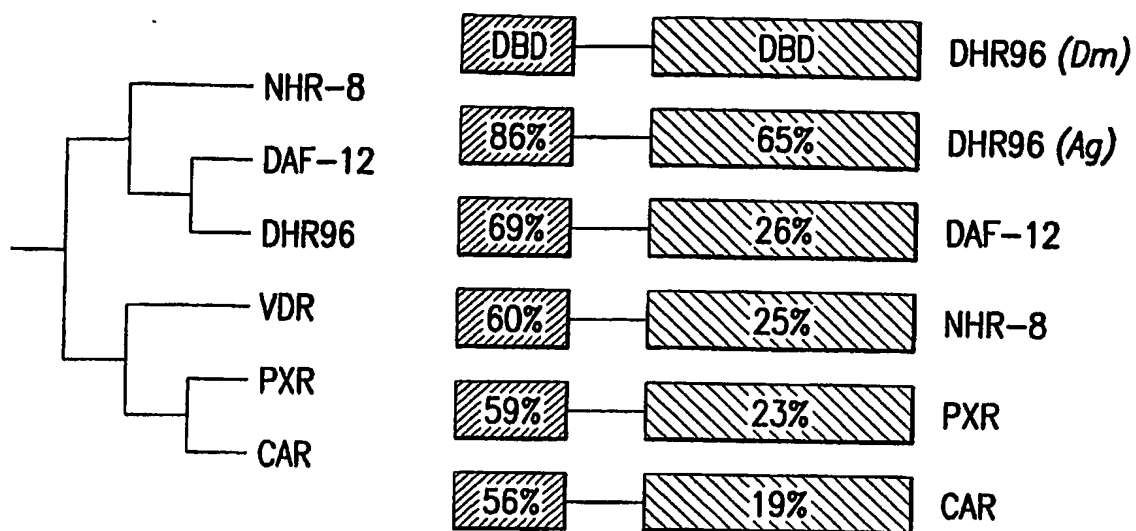


FIG. 1A

FIG. 1B

2/16

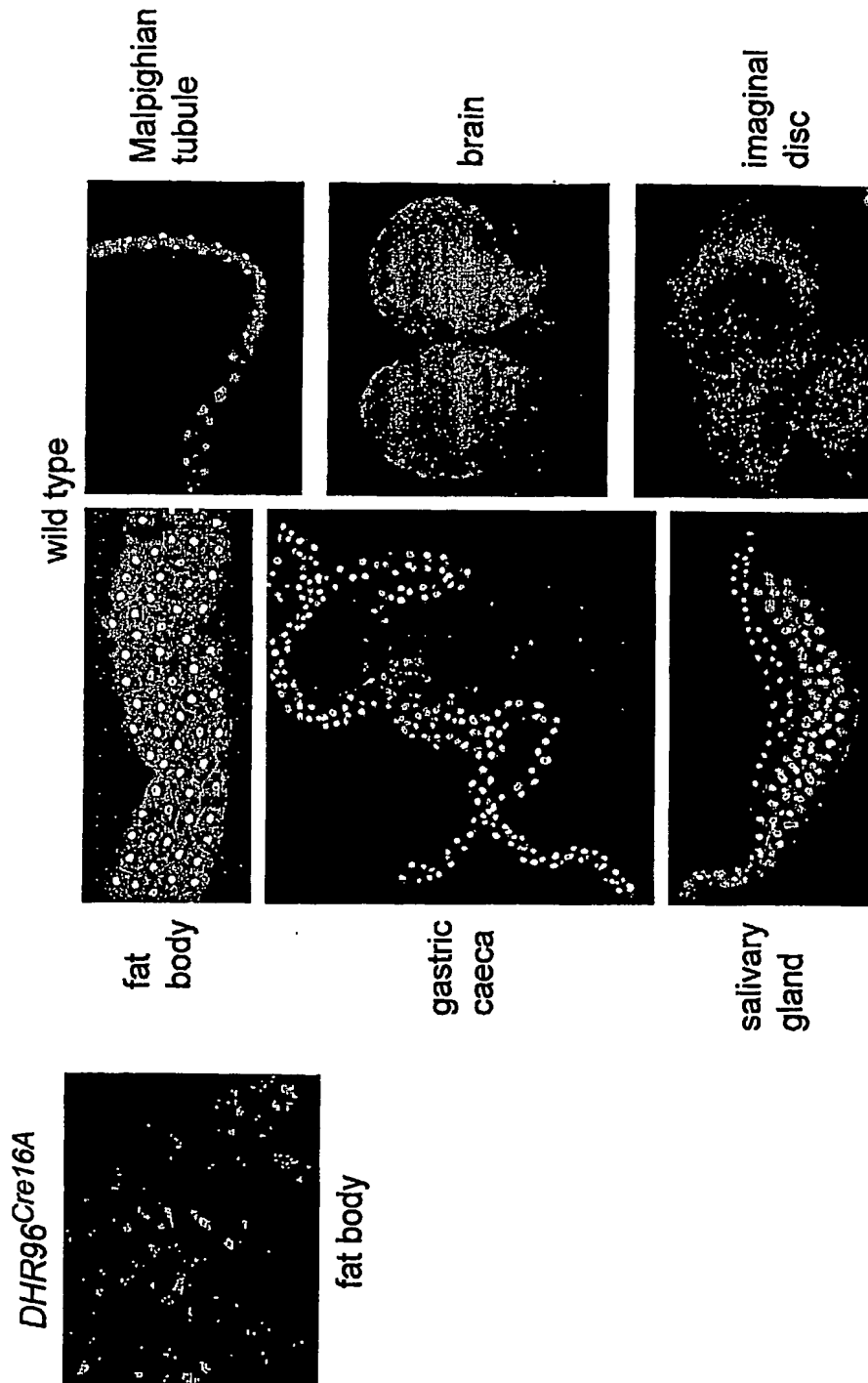


FIG.2

3/16

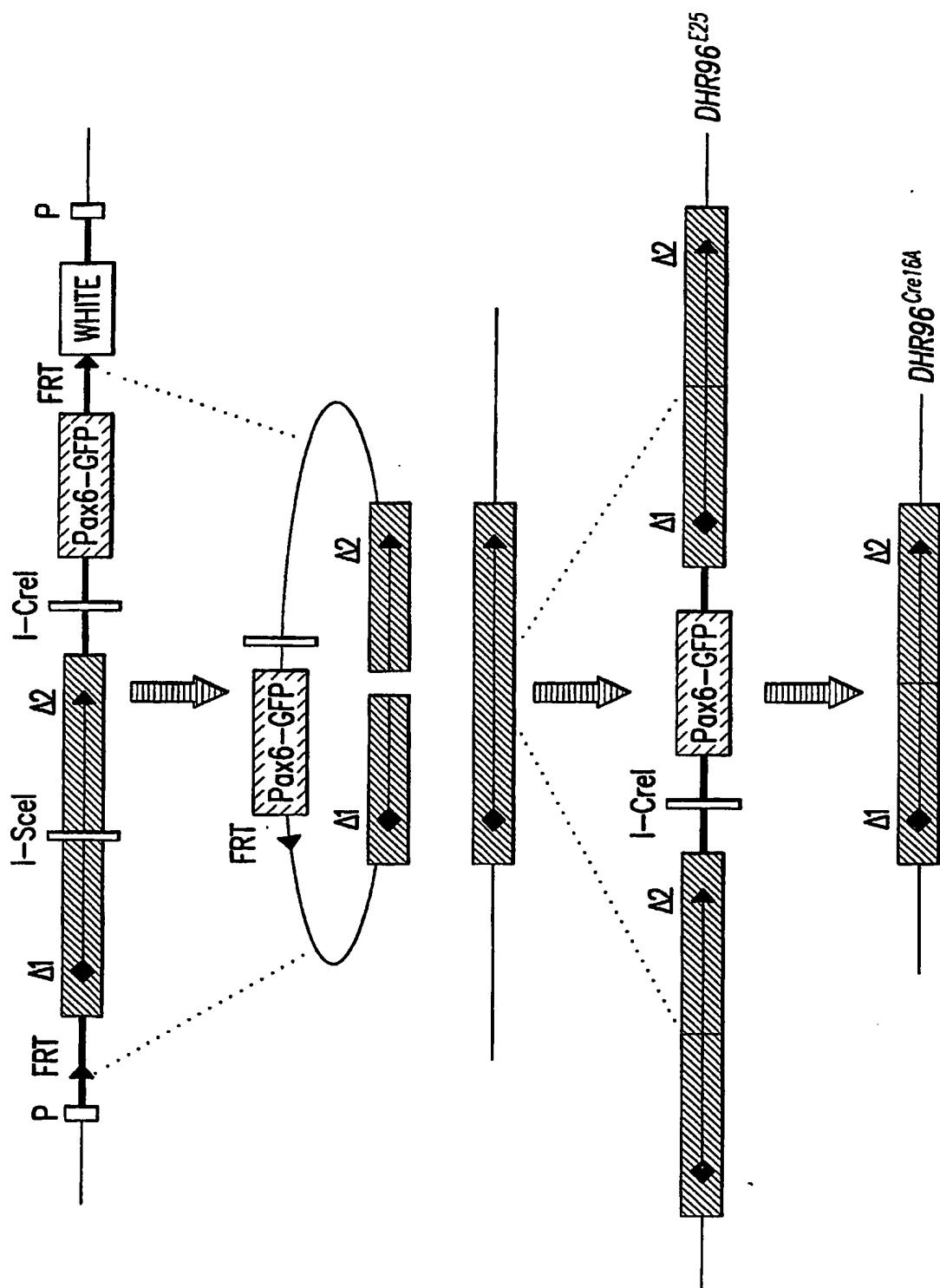


FIG.3

4/16

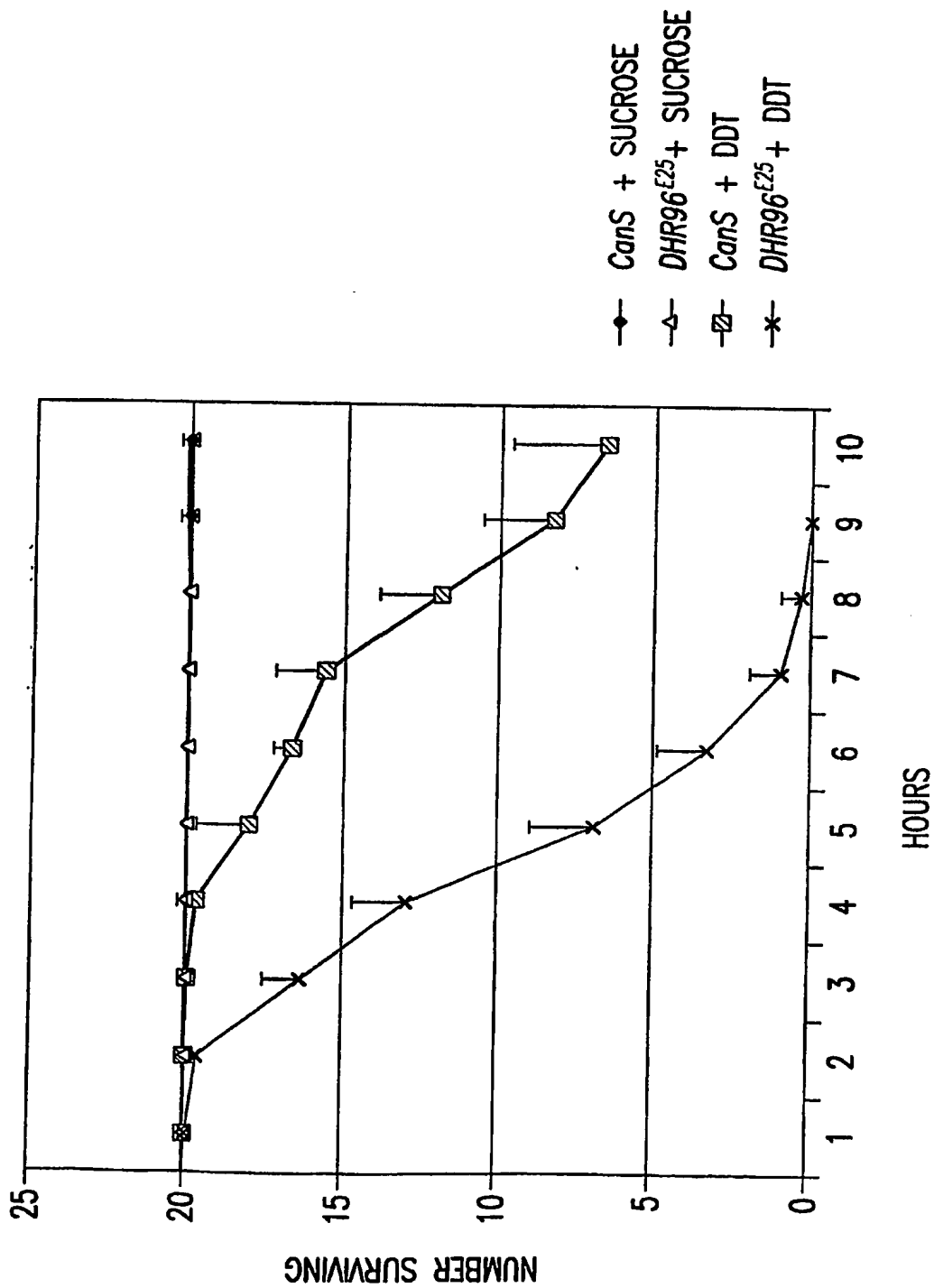


FIG.4

5/16



FIG.5

| | 10 | 20 | 30 | 40 | 50 | 60 | Identity |
|--------|--|----|----|----|----|----|----------|
| DHR38 | CAVCGDTAACQHYGVRTCEGCKGFFKRTVQKSKVIVCLADKNCPVDKRRNRRCQFCRFQKCLVWGM | | | | | | 88% |
| NGFI-B | CAVCGDNASQHYGVRTCEGCKGFFKRTVQKSAKYICLANKDPCVDKRRNRRCQFCRFQKCLAVGM | | | | | | 88% |
| NAK1 | CAVCGDNASQHYGVRTCEGCKGFFKRTVQKNAKYICLANKDPCVDKRRNRRCQFCRFQKCLAVGM | | | | | | 64% |
| TRXRα | CAICGDRSSGKHGVSCEGCKGFFKRTVRKDTLITCRDNKDCLIDKQRNRRCQYCRYQKCLAMGM | | | | | | 64% |
| Usp | CSI CGDRASGKHGVSCEGCKGFFKRTVRKDLITACRENRCIIDKQRNRRCQYCRYQKCLTCGM | | | | | | 61% |
| HZ-F1 | CPVCGDKVSGVHYGLLITCESCKGFFKRTVQNKVITQVRSCHIDKTQRKRCQYCRYQKCLVGM | | | | | | 59% |
| TRARα | CFVCGDKSSGVHYGVSACEGCKGFFRRIQKNMWVITQHRDKNGIINKVTRNRRCQYCRLOKCFEVM | | | | | | |

FIG. 6A

| | 10 | 20 | 30 | 40 | 50 | 60 | Identity |
|---------|--|----|----|----|----|----|----------|
| DHR78 | CLVCGDRASGRHYGAISCEGCKGFFKRSIRKQLGYQCRGAMNCEVTKHNRRCQFCRLQKCLASGM | | | | | | 74% |
| TRZ | GVVCGDKASGRHYGAVTCEGCKGFFKRSIRKNIIVYSCRGSKDGIINKHHRNRRCQYCRLOKCLAFGM | | | | | | 67% |
| Usp | CSI CGDRASGKHGVSCEGCKGFFKRTVRKDLITACRENRCIIDKQRNRRCQYCRYQKCLTCGM | | | | | | 65% |
| TRXRα | CAICGDRSSGKHGVSCEGCKGFFKRTVRKDLITTCRDNKDCLIDKQRNRRCQYCRYQKCLAMGM | | | | | | 62% |
| COUP-TF | GVVCGDKSSGKHGQFTCEGCKSFFKRSVRNLIITTCRANRCPIIDHNRRCQYCRYQKCLVGM | | | | | | 62% |
| EcR | CLVCGDRASGYHYNALTCEGCKGFFRISVTQSAVYCKGFRACEMDMYMRKCCQECRLKCLAVGM | | | | | | 62% |
| TRARα | CFVCGDKSSGVHYGVSCEGCKGFFRISIQKNMWVITQHRDKNGIINKVTRNRRCQYCRLOKCFEVM | | | | | | |

FIG. 6B

7/16

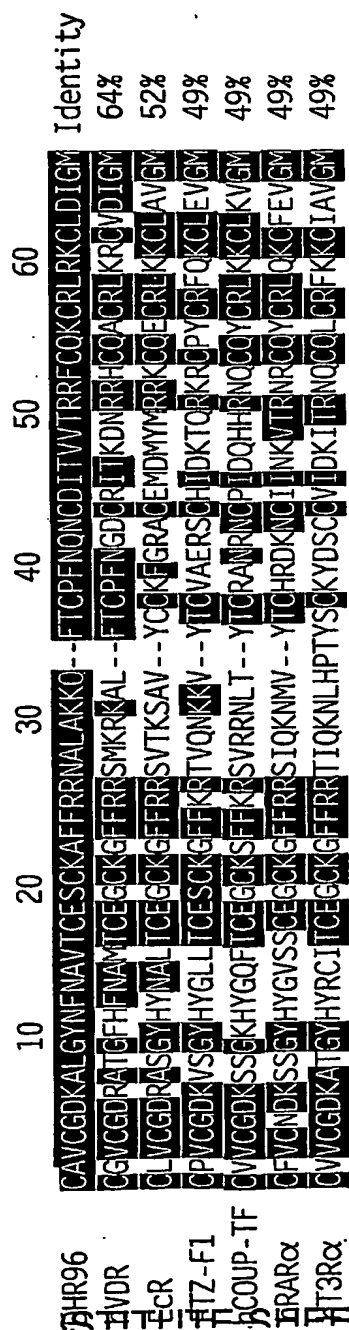


FIG.6C

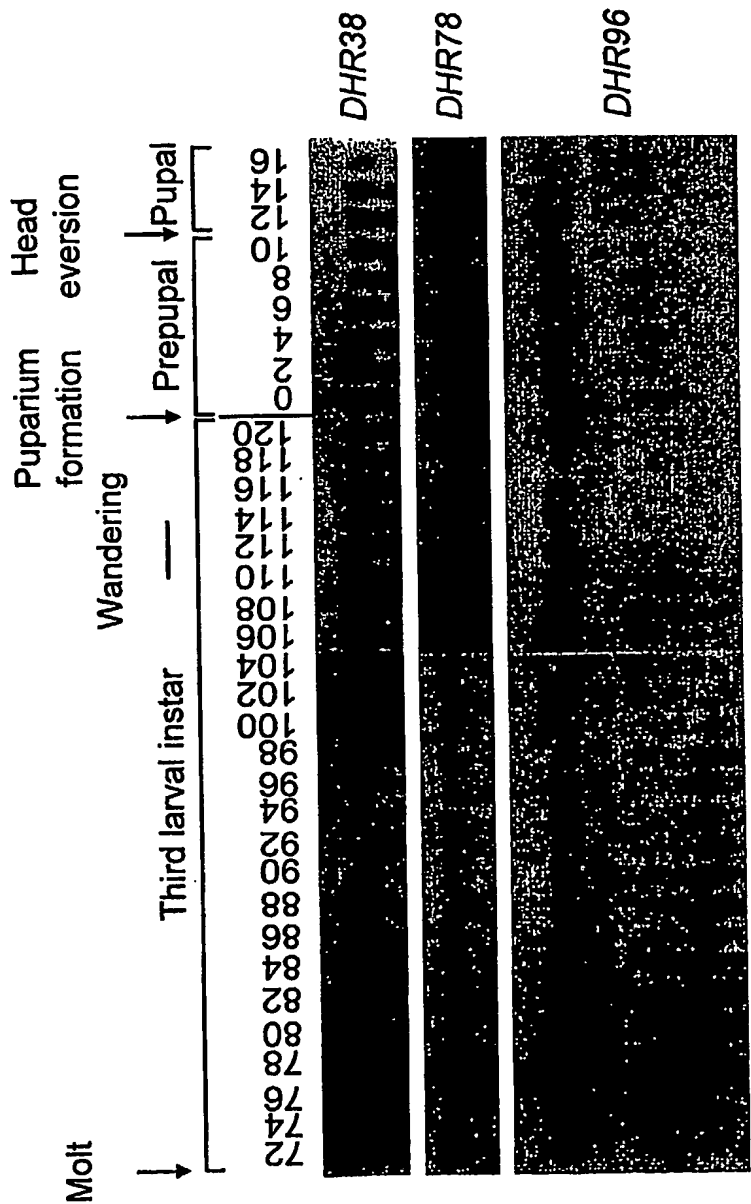


FIG.7

9/16

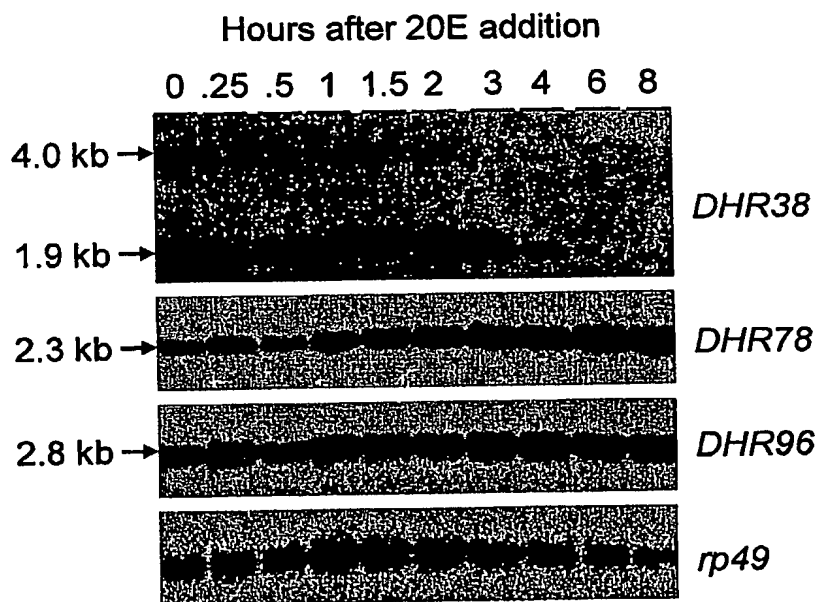


FIG.8

10/16

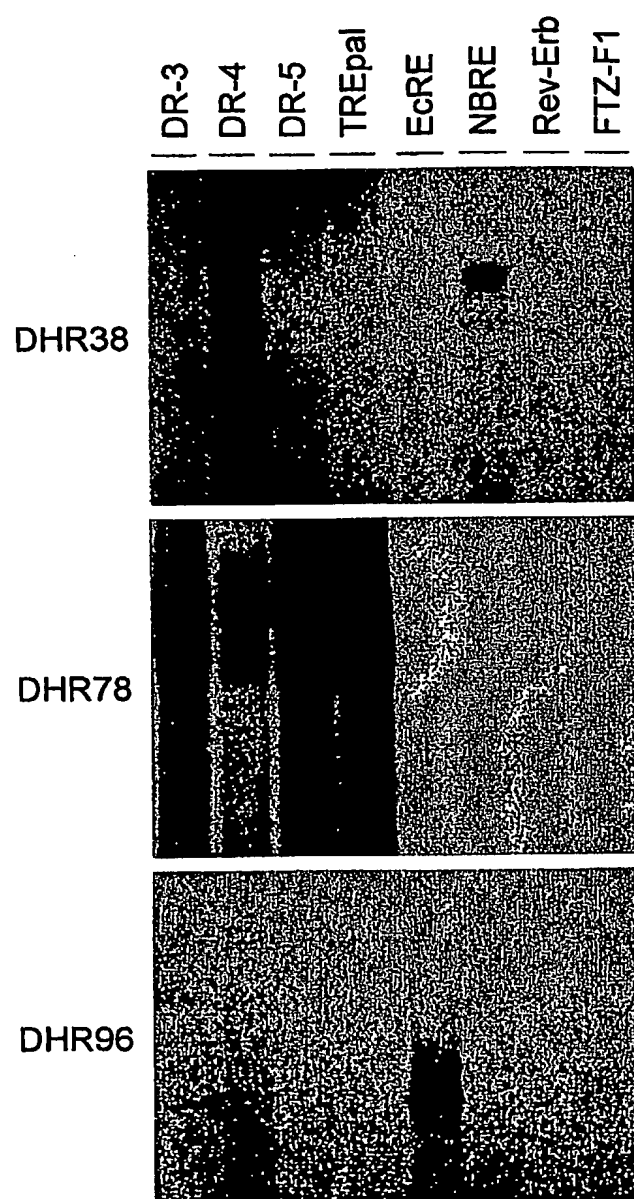


FIG.9

11/16

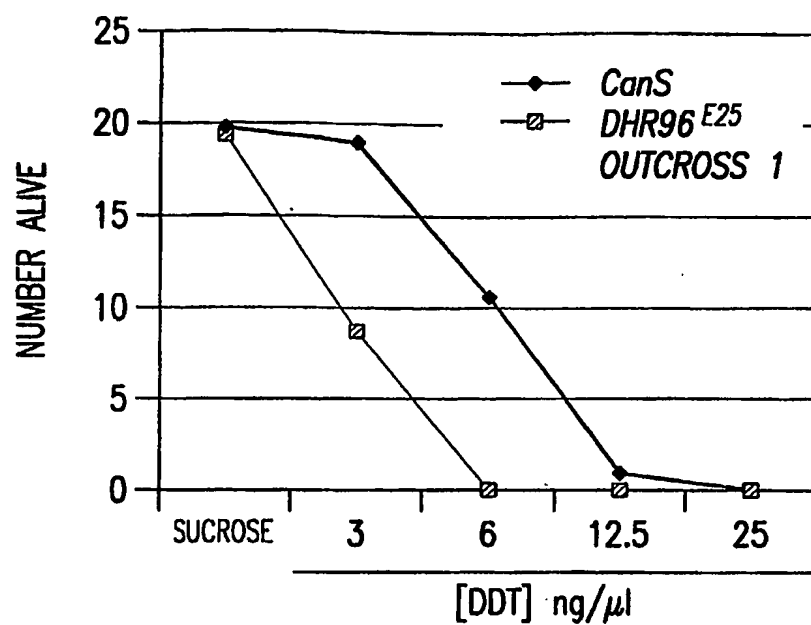
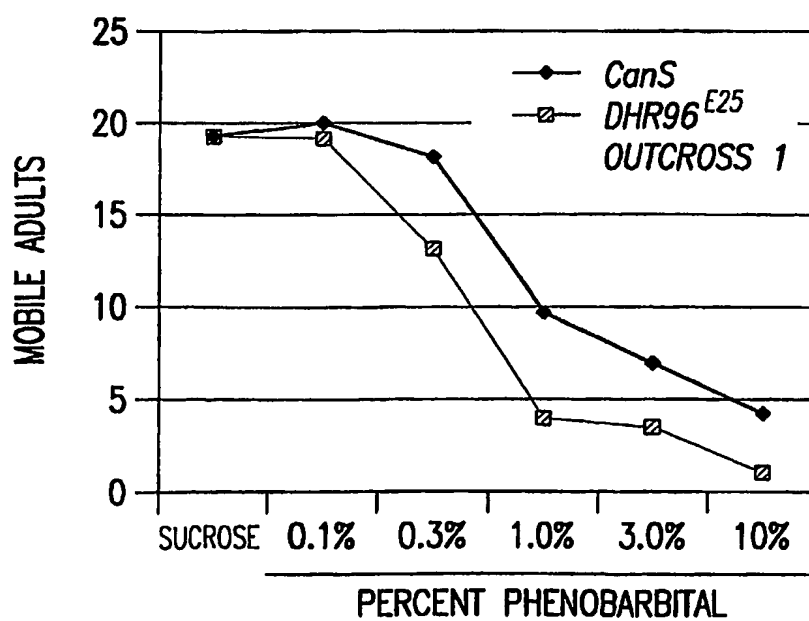


FIG. 10A

FIG. 10B
SUBSTITUTE SHEET (RULE 26)

12/16

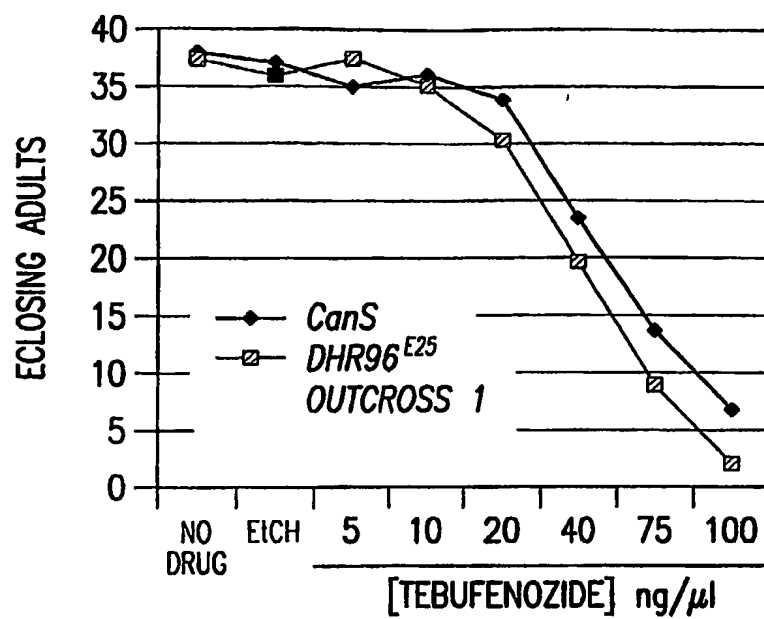


FIG.10C

| description | WMPHS | 96WPHS | fold change |
|--|----------|---------|-------------|
| 3:FBgn0002564/sym=Lsp 1 gamma/name=Larval serum protein 1 gamma/prod=Larval serum protein 1 gamma-s | 11164.31 | 340.12 | -32.82 |
| 3:FBgn0002531/sym=Lcp1/name=Larval cuticle protein1/prod=Larval cuticle protein 1/func=structural protein c | 3369.11 | 513.4 | -6.56 |
| 3:FBgn0019643/sym=Dat/name=Dopamine N acetyltransferase/prod= arylalkylamine N-acetyltransferase/func= | 8868.78 | 1353.56 | -6.55 |
| 3:FBgn0033596/sym=CG738/name=/prod=/func=/map=47E1-47E1/transc=CT23557/1er=405/GB:AE003: | 4306.66 | 925.55 | -4.65 |
| 3:FBgn0030484/sym=CG1681/name=/prod=glutathione transferase-like/func=enzyme/map=11F1-11F1/trans | 946.93 | 221.04 | -4.28 |
| 3:FBgn0040609/sym=CG3348/name=/prod=/func=map=97F6-97F6/transc=CT11231/1er=516/GB:AE003: | 5850.94 | 1473.79 | -3.97 |
| 3:FBgn0039778/sym=CG18030/name=/prod=trypsin-like/func=endopeptidase/map=99F8-99F8/1transc=CT4: | 1379.59 | 363.05 | -3.8 |
| 3:FBgn0034294/sym=CG5765/name=/prod=/func=/map=55B1-55B1/transc=CT18116/1er=1528/GB:AE00: | 4602.49 | 1375.71 | -3.35 |
| 3:FBgn0039296/sym=CG10420/name=/prod=/func=/map=96C3-96C3/transc=CT2244/1er=1794/GB:AE0 | 1271.55 | 405.9 | -3.13 |
| 3:FBgn0002533/sym=Lcp2/name=Larval cuticle protein 2/prod=Larval cuticle protein 2/func=structural protein c | 2050.81 | 723.13 | -2.84 |
| 3:FBgn0015039/sym=Cyp9b2/name=Cytochrome P45-9b2/prod=Cytochrome P450 CYP9B2/func=cytochr | 2526.49 | 947.68 | -2.67 |
| 3:FBgn0033978/sym=Cyp6a23/name=/prod=Cytochrome P450, CYP6A23/func=Cytochrome P45/map=51C | 647.32 | 243.36 | -2.66 |
| 3:FBgn0033595/sym=CG18337/name=/prod/func=/map=47E1-47E1/transc=CT41641/1er=540 /GB:AE00: | 538.81 | 202.16 | -2.66 |
| 3:FBgn0036656/sym=CG 13026/name= /prod= /func=/map=73B5-73B5/transc=CT32244/1er=405/GB:AE00 | 2244.66 | 892.89 | -2.51 |
| 3:FBgn0000153/sym=b/name=black/prod=glutamate decarboxylase 2/func=glutamate decarboxylase : EC:4.1 | 7070.57 | 2889.86 | -2.45 |
| 3:FBgn0039798/sym=CG11313/name=/prod=monophenol monooxygenase activator-like func=endopeptidase | 1080.32 | 451.23 | -2.39 |
| 3:FBgn0032606/sym=CG17932/name=/prod=UDP-glucuronosyltransferase/func=enzyme/map=36A9-36A9A | 1214.19 | 515 | -2.36 |
| 3:FBgn0000594/sym=Est-P/name=Esterase P/prod=carboxylesterase/func=carboxylesterase: EC:3.1.1.1/map | 475.26 | 205.79 | -2.31 |
| 3:FBgn0039239/sym=CG13641/name=/prod=/func=/map=96B4-96B4/transc=CT33035/1er=429/GB:AE00: | 1531.71 | 717.27 | -2.14 |
| 3:FBgn0014849/sym=Eig71Ei/name=/prod=/func=/map=71E4-71E4/transc=CT22591/1er=3901GB:AE0035 | 1107.37 | 523.8 | -2.11 |
| 3:FBgn0034341/sym=CG17531/name=GslE7/prod=glutathione transferase/func=enzyme /map=55C9-55C9/f | 3476.77 | 1645.19 | -2.11 |
| 3:FBgn0033830/sym=CG10814/name=/prod=/func=vitamin biosynthesis/map=50A6-50A6/transc=CT30312 | 363.72 | 174.9 | -2.08 |

FIG.11A

| | | | |
|--|----------|---------|-------|
| 3:FBgn0034010/sym=C38157/name=/prod=/func=/map=51F6-51F/func=CT21969/len=407/IGBA:E0031 | 1622.11 | 787.24 | -2.06 |
| 3:FBgn0003356/sym=Ser990a/name=Serine protease 1/prod=serine endopeptidase/func=serine carboxypept | 15697.45 | 7724.85 | -2.03 |
| 3:FBgn0001256/sym=implt/name=Ecdysoneinducible gene L1 /prod=ecdysone-inducible secreted membrane | 1414.79 | 709.8 | -1.99 |
| 3:FBgn0003046/sym=Pcp/name=Pupal cuticle protein/prod= /func=structural protein of pupal cuticle (Drosophi | 2111.66 | 1080.62 | -1.95 |
| 3:FBgn0003357 /sym=Ser990b /name=Serene protease 2 /prod=serine endopeptidase/func=serine-type endope | 15454.1 | 1955.78 | -1.94 |
| 3:FBgn0003659 /sym=C39701 /name= /prod=beta-glucosidase-like /func=ion channel /map=7385-7385 /transc | 1162.58 | 598.76 | -1.94 |
| 3:FBgn0033821 /sym=C310799/name=/prod=/func=/map=50A1-50A1/func=CT30256/len=591/GB:AE00: | 822.24 | 425.81 | -1.93 |
| 3:FBgn0036024/sym=C318180/name=/prod=/func=/map=67B10-67B10/func=CT41046/len=887/GB:AE | 4368.44 | 2288.8 | -1.91 |
| 3:FBgn0013307/sym=Odc 1 /name=Ornithine decarboxylase 1 /prod=ornithine decarboxylase func=ornithine dec | 1007.84 | 530.1 | -1.9 |
| 3:FBgn0029898/sym=C314439/name=/prod=permease-like/func=transporter/map=6C11-6C11/func=CT3 | 2393.73 | 1275.57 | -1.88 |
| 3:FBgn0031653/sym=C38871/name= /prod= /func=endopeptidase/map=2588-2588/func=CT25448/len=7 | 959.63 | 512.75 | -1.87 |
| 3:FBgn0040565/sym=C37606/name= /prod=/func= /map=90B5-90B5/func=CT23217/len=321 IG8:AE003 | 8325.78 | 4504.75 | -1.85 |
| 3:FBgn0031251 /sym=C34213/name=/prod= /func=motor/map=21C2-21C2/func=CT13888/len=3696/GB: | 146.23 | 19.37 | -1.84 |
| 3:FBgn0033197/sym=C317984/name=/prod=/func=/map=43E6-43E6/func=CT40154/len=1417/GB:AE0 | 1026.78 | 559.64 | -1.83 |
| 3:FBgn0039777 /sym=C32229 /name= /prod=serine protease-like /func=endopeptidase /map=99F7-99F8/trans | 9394.5 | 5150.37 | -1.82 |
| 3:FBgn0032889 /sym=C33331 /name= /prod=glycerate dehydrogenase-like/func=enzyme/map=38E9-38E9/trans | 3023.89 | 1676.12 | -1.8 |

14/16

FIG.11B

15/16

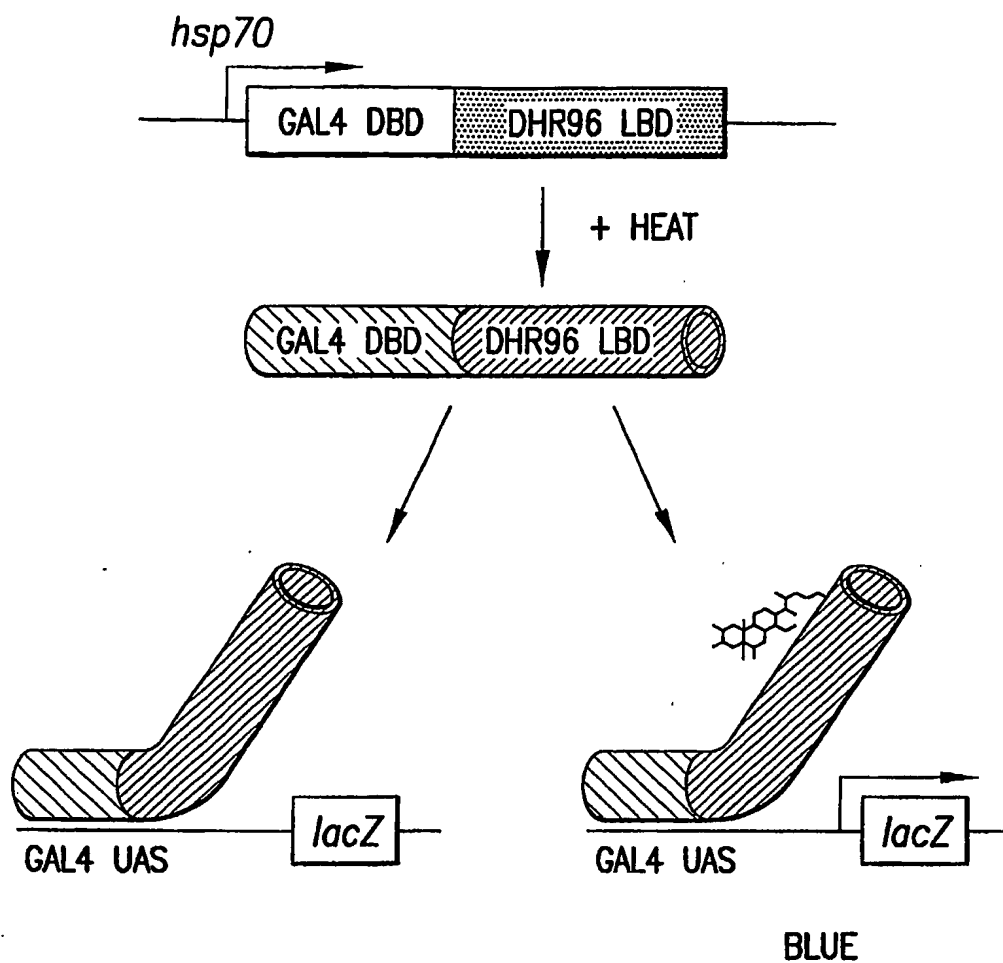


FIG.12

16/16

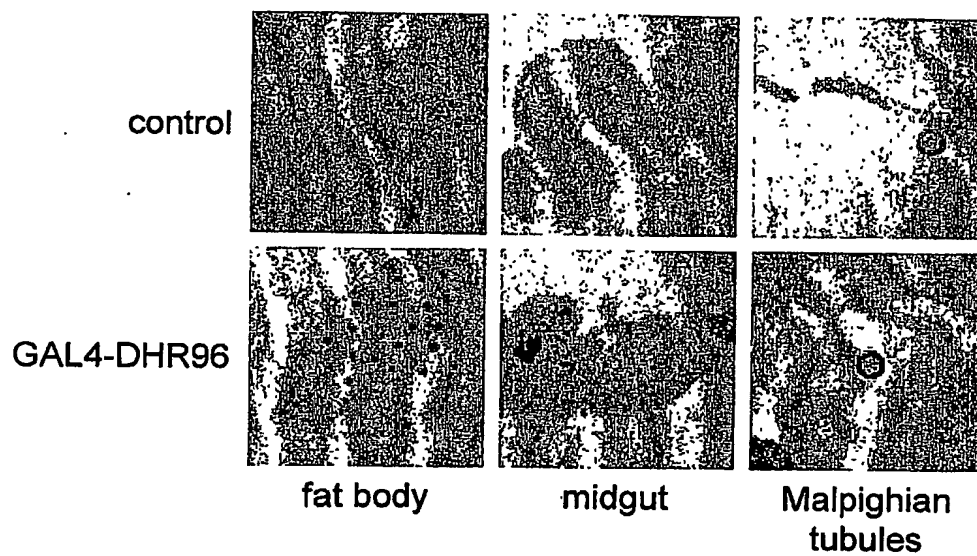


FIG.13